



# भारत का राजपत्र

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No. 38] NEW DELHI, SATURDAY, SEPTEMBER 17, 1977 (BHADRA 26, 1899)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके ।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

### PART III—SECTION 2

#### पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

#### Notifications and Notices issued by the Patent Office relating to Patents and Designs

##### THE PATENT OFFICE

##### PATENTS AND DESIGNS

Calcutta, the 17th September, 1977.

##### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

11th August, 1977.

1243/Cal/77. J. S. Baranik, V. Y. Yakovlev, B. V. Oblezova, V. I. Kluchnikov, A. A. Pliss, N. V. Kolesnikov and G. V. Petrov. Switching matrix and device for program control of mechanisms equipped with electrical and electromechanical final control elements based on said matrix.

1244/Cal/77. Union Carbide Corporation. Control of condensation products in hydroformylation process.

1245/Cal/77. Zaklad Doswiadczeniowy Dzwigow Samochodowych Samojezdnych przy Ośrodku Badawczego-Rozwojowym Maszyn Budowlanych. Installation for jib transference.

1246/Cal/77. Ireco Chemicals. Improved aqueous blasting composition.

1247/Cal/77. Dart Industries Inc. Chemical resistant decorative laminate.

1248/Cal/77. FMC Corporation. Insecticidal styryl-and substituted-styrylcyclopropanecarboxylates.

1249/Cal/77. Assam Electricals. A device for automatically recording more than two tariffs in terms of electrical power consumption.

1250/Cal/77. Kureha Kagaku Kogyo Kabushiki Kaisha. Method for the cultivation of basidiomycetes.

1251/Cal/77. Kureha Kagaku Kogyo Kabushiki Kaisha. Method for propagating basidiomycetes.

1252/Cal/77. A. K. Mathur, G. N. Tandon and R. K. Misra. Process of manufacture of an Accelerator for quick setting and hardening of shotcrete.

12th August, 1977

1253/Cal/77. West's Pyro Limited. Process for the decontamination of drilling cuttings and the disposal of waste mud products from oil based mud drilling operations. (August 12, 1976).

1254/Cal/77. F. L. Smidt & Co. A/S. Mechanical adjustable roller support. (August 16, 1976).

1255/Cal/77. Yardney Electric Corporation. Binder for pressed nickel electrodes.

1256/Cal/77. N. S. Sathaye. An electrical socket or adaptor.

1257/Cal/77. N. S. Sathaye. An electrical socket or adaptor.

1258/Cal/77. Union Carbide Corporation. Apparatus for refining molten metal.

1259/Cal/77. Vandervell Products Limited. Improvements in or relating to assemblies for railway vehicle axles (August 13, 1976).

1260/Cal/77. Pechiney Ugine Kuhlmann. Novel process for the physico-chemical cleaning of the inner walls of reactors.

1261/Cal/77. Pilkington Brothers Canada Limited. Reflective laminated safety glass. (September 1, 1976)

16th August, 1977

1262/Cal/77. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Method and apparatus for the discharge of separated dirt in open-end spinning apparatus.

1263/Cal/77. Fives-Cuil Babcock. Apparatus for reclaiming bulk materials from a storage yard.

1264/Cal/77. Yardney Electric Corporation. Heat treatment of Ni<sub>3</sub> utilized pressed nickel electrode.

1265/Cal/77. Metal Box Limited. Improvements relating to rotary shredding apparatus (August 17, 1976).

1266/Cal/77. Acumeter Laboratories, Inc. Method of and apparatus for adhering sheet material wrappings and the like.

1267/Cal/77. Societe D'Etudes DE Machines Thermiques—S.E.M.T. Improvements in or relating to a method of and device for quick pneumatic braking of a diesel engine.

1268/Cal/77. Acalor International Ltd. Random packing materials.

17th August, 1977

1269/Cal/77. E. I. Du Pont de Nemours and Company. Polyvinyl alcohol compositions and water-soluble films.

1270/Cal/77. Great Lakes Carbon Corporation. Rotary calciner.

1271/Cal/77. American Cyanamid Company. Process for the preparation of m phenoxybenzaldehyde.

1272/Cal/77. Nitto Boseki Co., Ltd. Method of detecting breakage of fiber filament.

1273/Cal/77. Hoechst Aktiengesellschaft. Propylene-terpolymers.

1274/Cal/77. Telehoist Limited. Telescoping mechanisms (August 20, 1976).

1275/Cal/77. Elektro-Thermit GMBH. Transportable device for the removal of projecting excess weld material in rail joint-welding.

1276/Cal/77. Mitsui Toatsu Chemicals, Inc., Toyo Engineering Corporation and Ebara Corporation. Sealing system for use in composite multi-stage pump.

1277/Cal/77. Stauffer Chemical Company. Process for producing diphenyl ether amides. [Divisional date July 30, 1976].

1278/Cal/77. Piaggio & C. S.p.A. Front-wheel suspension for two- or three-wheeled vehicles.

1279/Cal/77. Societe D'Etudes DE Produits Chimiques. Preparation process of a new pyrimidine derivative. (September 3, 1976)

APPLICATION FOR PATENTS FILED AT THE  
(DFI HI BRANCH)

28th July, 1977

176/Del/77. Bharat Heavy Electricals Limited. Method for protecting the internal surface of tubular materials from corrosion and rusting.

177/Del/77. Council of Scientific and Industrial Research. Improvements in or relating to attenuated total reflection (ATR) accessory to record ATR spectra on a spectrophotograph/spectrophotometer.

1st August, 1977

178/Del/77. B. R. Chankara Reddy and R. P. Sapru. Automatic lead selector device for 56-lead unipolar electrocardiographic lead selection.

2nd August, 1977

179/Del/77. S. K. Jain. Automatic dipper.

4th August, 1977

180/Del/77. Council of Scientific and Industrial Research. Process for protection of aluminium and aluminium alloy sheets against corrosion during storage and damage by scratches during manufacturing processes by coating with an anti-corrosive scratch-resistant and strippable surface-coating. [Divisional date November 15, 1975].

181/Del/77. Dr. D. N. Saraf, P. Darshan and Dr. Amitabha Bhattacharyya. Process know-how of normal paraffins separation from diesel oil (180–380°C) using Linde molecular sieves 5A.

182/Del/77. L. Mohan. An electrical switching device.

5th August, 1977

183/Del/77. Adlakha & Associates. A method of constructing precast building elements and building elements so constructed.

APPLICATION FOR PATENTS FILED AT THE  
(BOMBAY BRANCH)

26th July, 1977

228/Bom/77. Larsen & Toubro Limited. A heat transfer system for chilling or heating a liquid product such as milk.

27th July, 1977

229/Bom/77. R. H. Parikh. An improvement and modification in or relating to feeler bars used in textile industry.

230/Bom/77. (Mrs.) Shakuntala Ramchandra Dandekar. A funnel.

231/Bom/77. (Mrs.) Shakuntala Ramchandra Dandekar. A clip.

232/Bom/77. Maneklal Scientific Research Foundation. Process for manufacturing metal foils by electro-forming.

28th July, 1977

233/Bom/77. K. S. Shah. "Mostrap" mosquito killer.

234/Bom/77. Davy Bamatag GmbH. Process for continuously and simultaneously gasifying liquid and solid carbonaceous material.

30th July, 1977

235/Bom/77. F. N. Contractor. A new method of most economical distillation of liquids and gases.

1st August, 1977

236/Bom/77. Ahmedabad Textile Industry's Research Association and Kinariwala RJK Industries. Optoelectric yarn fault detector and clearer.

237/Bom/77. Ahmedabad Textile Industry's Research Association. An instrument to measure and indicate the speed of shuttle on looms.

2nd August, 1977

238/Bom/77. A. Satyaji. Automatic motor operator.

239/Bom/77. The Bombay Textile Research Association. A novel approach for obtaining equivalent mercerising effects on yarns or fabrics containing natural cotton fibre either alone or in blends/

union with other regenerated cellulosic and/or man-made synthetic fibres using hitherto not being practised low concentrations of alkalis with or without conventional mercerising machines for the purpose.

240/Bom/77. The Bombay Textile Research Association. The development of a process using suitable compounds for the colouration of cellulosic fibre fabrics and their blends with man-made fibres with the normal rapidogen class of azoic dyestuffs without conventional acid treatment in a separate bath or acid steaming for development/fixation of such dyestuffs.

4th August, 1977

241/Bom/77. J. P. Singh. Tie-plate added to the prevailing lazy-tong pop-riveting tool.

5th August, 1977

242/Bom/77. The Director, Indian Institute of Technology, V. R. Iyer and K. ChinnaGounden. Production of sodium chloride and/or potassium chloride and epsom salt from mixtures or the like containing these.

**APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)**

2nd August, 1977

128/Mas/77. T. H. Shindhe. Turbine pump.

129/Mas/77. S. Govindappa. Solar water pump.

130/Mas/77. R. Arora and N. Mallik. Automatic cleaning and degreasing equipment for parts and components.

4th August, 1977

131/Mas/77. Al-Madeena Exports. An improved door or window.

8th August, 1977

132/Mas/77. Dynam Engineering Corporation. A connector.

9th August, 1977

133/Mas/77. S. Tamilarasu. Improved single phasing preventer.

12th August, 1977

134/Mas/77. Raman Research Institute. A process for the preparation of 4-n-alkyl-4"-cyano-p-terphenyls.

**ALTERATION OF DATE**

142979. Ante-dated 6th December, 1973.  
1966/Cal/76.

142986. } Ante-dated 28th October, 1970.  
1913/Cal/75. }

**COMPLETE SPECIFICATION ACCEPTED**

Notice is hereby given that any person interested in the opposing the grant of patents on any of the applications concerned may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to India Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Roy Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India) Requisition for the supply or the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

**CLASS 27-I & 76B.**

142961

Int. Cl.-E04g 1/00, 25/00.

**TELESCOPICALLY LATERALLY EXPANDING MANUALLY OPERATED DEVICE.**

*Applicant* : MAIL ORDER SALES PRIVATE LIMITED, OF 15, MATHEW ROAD, BOMBAY-400 004, MAHARASHTRA, INDIA.

*Inventor* : MADHAV JAYARAM JOSHI.

Application No. 451/Bom/74 filed December 30, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**5 Claims**

A telescopically laterally expanding manually operated device comprises a first pipe of large diameter having at one end thereof means for holding fixedly concentrically inside said first pipe an externally threaded stud, the latter projecting out from said first pipe, a roller being mounted on said projected end of the stud such that the roller is free to rotate in relation to said first pipe and means for holding in place said roller, a second pipe of small diameter being adapted to telescope inside the first pipe by an internally threaded nut fixed to the inwardly pointing end of the second pipe for engaging the stud, gripping means being mounted on either end of the device such that one gripping means being directly mounted on the roller and the other being mounted on the outer end of the second pipe.

Class 69F1 & 133A & B.

142962

Int. Cl.-H01h 19/54, 9/26, 25/00, H02p 7/68, 7/74.

**A COMPOSITE ELECTRICAL SWITCH.**

*Applicant & Inventor* : NAGESRAO VENKOBA MANAY, TRANSLIFT CORPORATION, OF 3, CORPORATION BUILDING, RESIDENCY ROAD, KARNATAKA-25, INDIA.

Application No. 144/Mas/75 filed September 23, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**4 Claims**

A composite electrical switch comprising at least two master switch assemblies or sets being mounted on a frame, each said master switch assembly being connected to an electric motor or like machine for running the said motor at one speed or different speeds in either forward or reverse directions or for stopping its motion, the said master switch assemblies being connected to a mechanical actuator assembly comprising a bow-guide having a curved body with a longitudinal slot and an oval-guide having a central opening and along the minor axis in the said central opening being rotatably fitted two arms of a T-joint, the said bow-guide at its each end being provided with a trunnion one of the trunnions being rotatably fitted to a wall of the said frame and the other trunnion to a cam shaft of a master switch assembly to the opposite wall of the frame while the said oval guide at its each end being provided with a trunnion one of the trunnions being rotatably fitted to a wall of the said frame and the other trunnion to a cam shaft of another master switch assembly to the opposite wall of the frame such that the major axes of the said bow-guide and the said oval guide are at right angles to each other and the two switch assemblies lie adjacent to each other; the said oval-guide as well as

the said bow-guide being fitted with a locating as also an indicating mechanism, the said locating as also the said indicating mechanism comprising a toothed ratchet mounted co-axially with the said bow and oval guides and a spring-loaded lever whose free end engages with one tooth of the corresponding ratchet, the said lever being fitted on the frame of the composite switch, the said mechanism being adapted to locate the position of the corresponding guide and indicate the particular position of each master switch assembly, both the said oval guide and the said bow-guide being connected by a single operating lever which passes through the said longitudinal slot in the bow-guide; one end of the said operating lever being connected to the third arm of the said T-joint while the other end of the said single operating lever is free for being held by the operator; the said mechanical actuator assembly being adapted to operate, by means of the said single operating lever, the said master switch assemblies simultaneously for all possible combinations of the controls of the motor or like machine connected to them.

CLASS 51D.

142963

Int. Cl.-B26b 21/16.

## A BARBER'S RAZOR.

*Applicant* : VIDYUT METALLICS PRIVATE LTD., AT 12, NEW C.I.T. ROAD, CALCUTTA-12, STATE OF WEST BENGAL, INDIA.

*Inventor* : ARDHENDU MONDAL.

Application No. 1681/Cal/75 filed August 30, 1975.

Addition to No. 592/Cal/73.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A barber's razor as claimed in Patent No. 137988 of 15/3/73, comprising a handle and a blade holder, said blade holder comprising two independent cooperating gripping members each being of tapering section along its width preferably at the blade holding portion thereof, characterized in that, there is provided a projection at the inner surface of one of the gripping members in the form of a longitudinal rib and a cooperating recess of the same shape and size on the other or cooperating gripping member and a U-shaped clip is provided for holding the two gripping members securely by press fit.

CLASS 32F.b.

142964

Int. Cl.-C07d 51/70.

PROCESS FOR THE PREPARATION OF NOVEL DERIVATIVES OF N-(3, 4, 5-TRIMETHOXY CINNAMOYL) PIPERAZINE.

*Applicant* : DELALANDE S.A., 32, FUE HENRI REGNAULT-92402, CURBEVOIE, FRANCE.

*Inventors* : CLAUDE FAURAN, GUY RAYNAUD, BERNARD POURRIAS AND MICHEL TURIN.

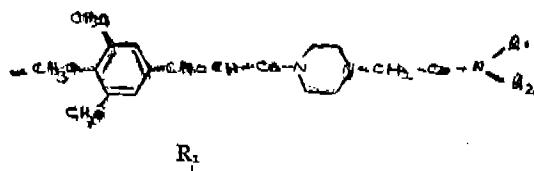
Application No. 2075/Cal/75 filed October 28, 1975.

Addition to No. 120702.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

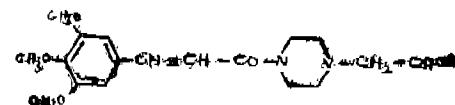
## 3 Claims

A process for the preparation of novel derivatives of N-(3, 4, 5-trimethoxy cinnamoyl) piperazine of the general formula I.

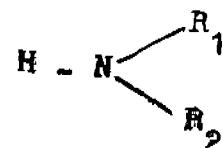


in which the symbol  $-\text{N}-\text{R}_2$  designates either a tertiary amino group in which  $\text{R}_1$  represents an alkyl radical containing no

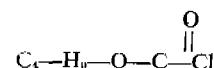
more than four carbon atoms,  $\text{R}_2$  representing a dimethoxyphenyl ethyl group; or a piperidino, a heptanethylenimino or a 1, 2, 3, 4-tetrahydro isoquinolino radical, characterised in that it consists in condensing N-(3, 4, 5-trimethoxy cinnamoyl)-N-(carboxymethyl) piperazine of formula II.



with a secondary amine of formula III.



in which  $\text{R}_1$  and  $\text{R}_2$  have the same significance as in formula (I), by means of butyl chloroformate of formula IV.



CLASS 39P.

142965

Int. Cl.-C01g 45/10.

## IMPROVEMENTS IN OR RELATING TO PREPARATION OF MANGANESE SULPHATE SOLUTION FROM MANGANESE ORES.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : VISHWANATH ANANT ALTEKAR, HIRENDRA KUMAR CHAKRABARTI, NAYER DHANANJAYAN AND PRASANTALAL SEN GUPTA AND SUDHIR KUMAR GROVER AND PRABODH CHANDRA BHATIA.

Application No. 2339/Cal/75 filed December 15, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 8 Claims

A process for preparation of manganese sulphate solution from manganese ore which comprises in the digestion or leaching of manganese ore, with a ferrous sulphate solution, containing sulphuric acid in a ratio in which substantially a minimum of one gram molecule of free sulphuric acid is associated with each gram molecule of ferrous sulphate, at a temperature substantially between 70-95°C and preferably between 85-95°C in a reactor vessel, under continuous agitation for 20-120 minutes and preferably between 30-60 minutes wherein the manganese dioxide present in the ore is sufficient for oxidation of all the ferrous iron present in the solution to ferric state and thereafter treating the digested solution with reduced manganese ore to completely react with the free sulphuric acid at temperature between 30°C-85°C and preferably between 60-75°C for 15-60 minutes and separating the solids from the resultant product and obtaining a clear solution of manganese sulphate free from iron and free sulphuric acid.

CLASS 35B.

142966

Int. Cl.-C04b 7/34.

## A PROCESS FOR THE MANUFACTURE OF HYDRAULIC SETTING CEMENT FROM RICE HUSK) STRAW ASH WASTE MATERIAL.

*Applicant* : INDIAN INSTITUTE OF TECHNOLOGY, KANPUR 208016, UTTAR PRADESH, INDIA.

*Inventor* : PRAKASH CHAND KAPUR.

Application No. 2001/Cal/74 filed September 6, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims. No drawings

A hydraulic setting cement consisting of 20 to 90% by weight of free available rice husk ash or straw ash obtained from, for example, rice mill boilers, industrial furnaces and heaps, and 10 to 80% by weight of calcium oxide and/or calcium hydroxide.

CLASS 27L. 142967

Int. Cl.-E04b 1/06.

STRANDED WIRE FOR PRESTRESSED CONCRETE.

*Applicant* : VRHEINIGTE DRAITSEILWERKE GMBH., OF SEILERSTRASSE 1-3, 46 DORTMUND, WEST GERMANY.

*Inventor* : HELMUT FISCHER.

Application No. 1589/Cal/75 filed August 14, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A stranded wire for prestressed concrete, characterised in that said stranded wire comprises a plurality of helically wound wires or leads, the outermost leads being provided with a surface profile prior to the stranding operation which surface profile extends around the full circumference of each individual outer wire or lead; and the rounded lateral edges of the recesses of the stranded wire which, besides, smoothly join the wire surface in the peripheral direction of the wire or lead, are bevelled relative to the longitudinal axis of the wire at an angle diverging from an angle of 90°.

CLASS 97F & 98E. 142968

Int. Cl.-B21d 11/06.

AN IMPROVED PROCESS FOR VACUUM DEPOSITION OF ALUMINIUM ON SUBSTRATES.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : AWATAR SINGH AND YOGENDER KUMAR JAIN.

Application No. 1611/Cal/75 filed August 19, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

1 Claim

An improved process for vacuum deposition of aluminium on the substrates characterised in that a high purity tungsten wire in the coil form with pitch at the ends smaller than that at the centre is used and with aluminium wire inserted inside the central turns whereby more heat is generated at the ends when the high current is passed through the coil and the aluminium wire melts evaporate and gets deposited on the substrates.

CLASS 107H. 142969

Int. Cl.-F02m 59/00.

FEED PUMPS FOR DELIVERING FUEL TO AN INJECTION PUMP OF AN INTERNAL COMBUSTION ENGINE.

*Applicant* : ROBERT BOSCH GMBH, OF POSTFACH 50, 7 STUTTGART 1, WEST GERMANY.

*Inventor* : WALTER HAFELE.

Application No. 1688/Cal/75 filed September 2, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A feed pump for delivering fuel to an injection pump of an internal combustion engine, the feed pump comprising a housing having a guide sleeve of internal rectangular cross section in which a rectangular cross section roller plunger of a pumping element of the pump is axially drivable; and a releasable device for preventing the roller plunger from being displaced out of the housing, said device comprising a latch which projects into the rectangular sectioned interior of the guide sleeve and engages into a recess which is disposed in the plunger and which forms a stop for the latch.

Class 32E.

142970

Int. Cl.-C08f 1/88, C08f 27/00.

MELT FINISHING PROCESS FOR POLYMERS PRODUCED BY VAPOR STATE POLYMERIZATION PROCESSES.

*Applicant* : STANDARD OIL COMPANY, OF 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS, 60601, UNITED STATES OF AMERICA.

*Inventors* : JAMES LOUIS JEZL AND EDWIN FRANCIS PETERS.

Application No. 2333/Cal/75 filed December 12, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A process for treating solid polymer produced by polymerisation in a vapor state reactor of at least one polymerisable monomer, which process comprises contacting said polymer with monomer in a post polymerisation zone in which further polymerisation occurs, whereby heat evolved during said further polymerisation is retained to provide heat required to melt the polymer.

CLASS 205 K & L.

142971

Int. Cl. B60c9/08; 11/04; 11/16.

PNEUMATIC RADIAL TIRE.

*Applicant* : UNIROYAL A. B., LOCATED AT D-51 AACHEN, HUETTENSTRASSE 7, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : GERHARD FRANZ-JOSEF SENGER.

Application No. 955/Cal/76 filed June 2, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A pneumatic radial tire comprising :

a carcass including at least one ply having cords disposed substantially radially of the tire; a reinforcing belt extending substantially circumferentially of the tire over said carcass;

a tread portion including shoulder portions of elastomeric material over said carcass;

and outer shoulder and sidewall portions of elastomeric material over said carcass, characterized in that the tread and outer shoulder portions comprise similar circumferentially overlapping patterns, each pattern having lugs and grooves and having a first tread lug at the equator of the tire and having four similar tread lugs of different shape from said first lug, each of said four similar lugs having its longest edge dimension substantially parallel to the longest edge dimension of said first lug, a first pair of said four similar lugs being adjacent a second lug at the equator in a second of said overlapping patterns and a second pair of said four similar lugs being adjacent a third lug at the equator in a third of said overlapping patterns.

CLASS 5-D & 55D.

142972

Int. Cl. A01n; 5/00.

METHOD OF PRODUCING A COMPOSITION FOR REDUCING LOSS OF WATER BY TRANSPERSION BY PLANTS.

*Applicants* : CHARLES FREDERICK DELONG, OF 2700 VIRGINIA AVENUE, WASHINGTON, D.C. 20037, UNITED STATES OF AMERICA AND GEORGE LEONARD ERION III, OF 600 NEW HAMPSHIRE AVENUE, N.W. WATERGATE, SUITE 870, WASHINGTON, D.C. 20037, UNITED STATES OF AMERICA.

*Inventor* : CHARLES FREDERICK DELONG.

Application No. 1309/Cal/76 filed July 21, 1976

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims. No drawings

A method for making a composition for decreasing the loss of water from leaves and stems of plants by transpiration and for protecting plants from wind and cold comprising preparing a homogeneous dispersion of water, a carboxylated hydrophilic acrylic polymer, a cross linking agent for the carboxylated hydrophilic acrylic polymer and about 0.0001% to about 1% by weight of an ultraviolet-absorbing agent.

CLASS 12K. 142973

Int. Cl. B23b 39/00. B23d 3/00; 7/00; B23g 1/00.

**TAP-ON-PRESS ATTACHMENT FOR TAPPING HOLES.**

*Applicant* : LARSEN & TOUBRO LIMITED, L & T HOUSE, BALLARD ESTATE, BOMBAY-400 038, MAHARASHTRA, INDIA.

*Inventor* : MR. SIVARAMAKRISHNAN SAMU.

Application No. 343/Bom/75 filed November 27, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

3 Claims

A tap-on-press attachment comprising at least one tap, a rack and pinion arrangement in which the rack is rigidly mountable on the base plate of a press tool or a pillar set and the pinion is mountable on the movable top plate of said press tool or pillar set and a positive drive mechanism coupling said pinion to said tap for transmitting the rotary motion of said pinion to said tap.

CLASS 129-G. & 179F. 142974

Int. Cl. B65d 41/00; B21d 51/44.

**A FORMING TOOL FOR USE IN THE MANUFACTURE OF BOTTLE CAPS.**

*Applicants* : LARSEN & TOUBRO LIMITED, L & T HOUSE, BALLARD ESTATE, BOMBAY-400 038, MAHARASHTRA, INDIA.

*Inventor* : MR. NOSHIR PADAMJI KAPADIA.

Application No. 345/Bom/75 filed November 28, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

5 Claims

A forming tool for use in the manufacture of bottle caps, said forming tool having a lower part comprising a bottom bolster rigidly mountable on the bed of the press and carrying a die housing; a plurality of blanking dies each fitted with a pre-loaded ball cage and housed therewith in said die housing, a hard liner being provided between said ball cage and said dies housing; a plurality of forming dies each of which is located co-axially within a blanking die, a forming dies adjustment sleeve being associated with each said forming die and within said blanking die; ejector rod ends running co-axially within each said adjustment sleeve and connectable to an ejection mechanism which imparts reciprocal movement thereto for ejection of finished bottle caps; and the upper part comprising a top bolster disposed above said bottom bolster and aligned therewith by means of guide pillars moving in ball bearing type bushes; a plurality of blanking punches each of which is provided with a ball cage and located therewith in a punch holder sleeve provided in said top bolster and adapted to reciprocate co-axially within said punch holder sleeve under the action of a reciprocating lower or blanking slide; a plurality of forming punches each of which

is located co-axially within a blanking punch and adapted to reciprocate axially therein under the action of a reciprocating upper or forming slide to which it is fastened through a punch holder, a spring-loaded knock-cut pin being provided co-axially in each said forming punch; said upper or forming slide and said lower or blanking slide being each connectable to means provided on the press for imparting said reciprocating movement and said lower or blanking slide being also connectable to means mounted on the press for providing a dwelling period for said blanking slide immediately after a blanking operation till the completion of a forming operation; a stripper plate to strip a thin sheet after blanking and forming operations.

CLASS 39-N.

142975

Int. Cl. C01f 7/00.

**PROCESS FOR THE PREPARATION OF ALUMINIUM HYDROXY-CHLORIDES.**

*Applicant* : RHONE-PROGIL S.A., OF 25 QUAI PAUL-DOUMER, 92408 COURBEVOIE, FRANCE.

*Inventors* : LAURENT SEIGNEURIN & MICHEL BRUNET.

Application No. 2292/Cal/74 filed October 14, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims. No drawings

A method of preparing products consisting entirely of aluminium hydroxychlorides of the general formula  $Al_x(OH)_yCl_{6-x}Y_{a/3}M_{b/2}$  where X is a number (integral or fractional) in the range between 0 and 6, but is neither zero nor 6, Y is an anion of valency y, M is an alkali metal or alkaline earth metal, z is the valency of M and a is  $0 < \phi < 7$  comprising reacting one or more aluminium compounds selected from the group of active alumina and a compound comprising aluminium and chlorine as herein defined, with a solution of hydrochloric acid and small amounts of ions Y and M (as defined above), wherein the said ions may be added during or after the formation of aluminium hydroxychlorides.

CLASS 62-C.

142976

Int. Cl. B05c 5/00; D06p 5/00; D06q 1/00.

**AN APPARATUS AND METHOD FOR PATTERN DYEING OF TEXTILE MATERIALS.**

*Applicant* : MILLIKEN RESEARCH CORPORATION, OF P.O. BOX 1927, HAVING A PLACE OF BUSINESS NEAR SPARTANBURG, COUNTY OF SPARTANBURG, SOUTH CAROLINA, UNITED STATES OF AMERICA.

*Inventors* : WILLIAM HOGUE STEWART & HAROLD JEE JOHNSON.

Application No. 2739/Cal/74 filed December 12, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims

A method of dyeing a porous textile material to obtain a specific pattern, wherein the material is moved relative to a row of dye-emitting orifices extending transversely to the movement of the material, a stream of liquid dye is continuously discharged from each orifice and is selectively directed away from and onto the material in accordance with the pattern to be applied thereto, and the selective direction of the dye streams is controlled by blocks of pattern data during repeating cycles to direct the dye streams, each cycle is initiated in response to movement of the material through a preselected distance, all of the dye streams are enabled to be directed onto the material within each cycle during a pre-selected period of time, the streams are directed in accordance with the pattern data during each of the time periods, and a quiescent time is maintained within each cycle during which all of the dye streams in the row are directed away from the material.

CLASS 70-C.

142977

Int. Cl. C22d 5/00.

IMPROVED PROCESS FOR THE ELECTROLYTIC PRODUCTION OF IRON POWDER; IRON FROM IRON CHLORIDE SOLUTION.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : VYAS MUNI PANDEY, SATYENDRA KUMAR JAIN & PRAFULLA KUMAR JENA.

Application No. 575/Cal/75 filed March 22, 1975.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims. No drawings

Improved process for the electrolytic production of iron powder/iron by electrolysis of ferrous chloride solution characterised in that the ferrous chloride solution contains sodium chloride, acetic acid or sodium acetate singly or in combination to act as buffers to form catholyte, and saturated sodium chloride as anolyte employing an insoluble anode at 10-50°C, 1-8 volts and current density of 0.1 to 5.5 amp/dm<sup>2</sup>.

CLASS 89.

142978

Int. Cl. G01 f 3/00.

A DEVICE FOR MEASURING QUANTITY OF LIQUID GAS WITHIN A CYLINDER.

*Applicant & Inventor* : AMITABHA DATTA, 237 JODHPUR PARK, CALCUTTA-700068, INDIA.

Application No. 1202/Cal/75 filed June 17, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A device for measuring and indicating the quantity of liquid gas within a cylinder comprising a valve body connected to the cylinder, an inlet pipe provided with said valve body, said pipe leading into the cylinder to be in flow communication with the gas within said cylinder, a spindle within the said inlet pipe, and extending upwards to the cylinder valve body, an arm carrying a float within the cylinder, means provided between said arm and said spindle for causing the spindle to rotate with the movement of the float arm, said means comprising a bevel wheel mounted at the lower end of the spindle, a pivotally mounted float arm also carrying a bevel wheel to be in engagement with the said bevel wheel at the lower end of the spindle, the bevel wheel of the float arm operating the spindle, a magnet mounted at the upper end of said spindle, said magnet being housed within an extension of the said valve body, a gauge meter with a needle fitted above the body accommodating the upper end of the spindle carrying the magnet, so that the turning movement of the magnet at the upper end of the spindle, moves the needle of the meter, the meter being precalibrated whereby the position of the needle indicates the amount of gas within the cylinder, the angle of turning movement of the spindle depending upon the turning movement of float arm.

CLASS 148-H.

142979

Int. Cl. G03g 5/02.

METHOD OF MANUFACTURING AN ELECTROPHOTOGRAPHIC FILM AND FILM SO MANUFACTURED.

*Applicant* : COULTER INFORMATION SYSTEMS, INC., OF 35 WIGGINS AVENUE, BEDFORD, MASSACHUSETTS, UNITED STATES OF AMERICA, FORMERLY OF 7 DE ANGELO DRIVE, BEDFORD, MASSACHUSETTS, UNITED STATES OF AMERICA.

*Inventor* : MANFRED RUDOLF KUEHNLE.

Application No. 1966/Cal/76 filed October 28, 1976.

Division of application No. 2663/Cal/73 filed December 6, 1973

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

A method of manufacturing an electrophotographic film adapted to act as an image receptor composed of an underlying substrate and a deposited photoconductive crystalline coating bonded therupon, the depositing being effected by r.f. sputtering in a sputtering chamber through the establishment of a plasma between a target of the photoconductive material to be deposited and an anode carrying the substrate, the plasma including one dark space between the plasma and the anode and the sputtering being continued until a crystalline layer of said material is deposited on the substrate, the method being characterised by the step of establishing an additional dark space between the plasma and the anode by maintaining the anode biased below ground potential during sputtering.

CLASS 7; 8, 67A &amp; 67C.

142980

Int. Cl. G08t 17/06; G08c 19/00; G10k 3/10; 7/00.

ELECTRONIC ALARM.

*Applicant & Inventor* : KUKKEMANE CHITTARANJAN BHATT, 8/1, PALMGROVE ROAD, BANGALORE-56007, INDIA.

Application No. 51/Mas/75 filed March 29, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

An electronic alarm comprising in combination a bistable multivibrator which is set, whenever required, in the 'alert mode' by a re-set switch provided therein, the output of the said bistable multivibrator being connected to an astable multivibrator through a coupling gate and the astable multivibrator being further connected to alarm means through a siren and amplifier and the input of the said bistable multivibrator to a trigger gate provided with trigger loop terminals, said terminals being operable to acuate the said alarm, and all the above components interconnected to an external or internal source of power supply through an automatic change-over circuit.

CLASS 42A, &amp; A.

142981

Int. Cl. B65d 85/10.

DEVICE FOR TRANSFERRING AND SHAPING READY FOR USE ON CIGARETTE PACKING MACHINES THE UNDERSTRIP OR "SHOULDER PIECE" INCORPORATED INTERNALLY IN EACH PACKET OF THE HINGE LID TYPE.

*Applicant* : G. D. SOCIETA PER AZIONI, OF VIA PIMPONIA 10, BOLOGNA, ITALY.

*Inventor* : SERAGNOLI ENZO.

Application No. 2159/Cal/74 filed September 26, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A device connected to a machine for packing cigarettes in packets of the hinge lid type and working in conjunction with means on which the said understrips or shoulder pieces are produced and with a wrapping station for the said packing machine, the device comprising means for transferring the said understrips, one at a time, from the production area to a first station and means for individually transferring the said understrips from the said first station to a second station belonging to the aforementioned wrapping station provided with a plurality of compartments movable intermittently or in steps in such a way that they halt in succession in the said second station, means being provided to shape the said understrips in a U-shape, ready for use whilst they are being transferred from the first to the second station.

CLASS 32-E &amp; 104G.

142982

Int. Cl. C08f 3/00; 15/00 &amp; 25/00.

## A PROCESS FOR THE PREPARATION OF A LATEX POLYMER.

*Applicant* : ROHM AND HAAS COMPANY, INDEPENDENCE MALL WEST, PHILADELPHIA, UNITED STATES OF AMERICA.*Inventor* : HARRISON SCOTT KILLAM.

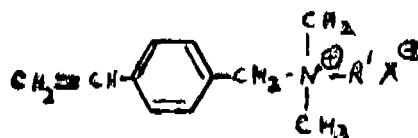
Application No. 2102/Cal/74 filed September 21, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

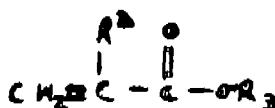
A process for the preparation of a latex polymer which comprises subjecting a monomer mixture to emulsion polymerisation conditions in an aqueous medium and in the presence of a known polymerisation initiator, said monomer mixture comprising :

(a) from 0.25 to 5% by weight of the total weight of monomer in the mixture of one or more vinylbenzyltrialkylammonium salts of the formula IV.

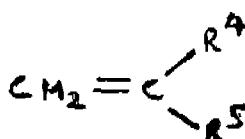


wherein R<sup>1</sup> is (C<sub>1</sub>-C<sub>22</sub>) alkyl and X<sup>-</sup> is an anion, and.

(b) one or more monomers of the formula II.



wherein R<sup>2</sup> is hydrogen or alkyl and R<sup>3</sup> is a straight chain, branched chain or cyclic alkyl, alkoxyalkyl or alkylthioalkyl radical, ureido, hydroxy (C<sub>1</sub>-C<sub>6</sub>) alkyl, 2, 3-epoxy-propyl radical, (C<sub>1</sub>-C<sub>6</sub>) alkyl or mono- or di-(C<sub>1</sub>-C<sub>6</sub>) alkylamino (C<sub>1</sub>-C<sub>6</sub>) alkyl or hydroxy (C<sub>1</sub>-C<sub>6</sub>) alkylamino (C<sub>1</sub>-C<sub>6</sub>) alkyl and/or one or more monomers of the formula III.



wherein R<sup>4</sup> is hydrogen, methyl or halo and R<sup>5</sup> is hydrogen, halo, (C<sub>1</sub>-C<sub>6</sub>) alkanoyloxy, formyl, phenyl, N-hydroxyethyl, tolyl methoxyethyl, 2, 4-diamino-s-triazinyl, (C<sub>1</sub>-C<sub>6</sub>) alkyl epoxy;

said vinylbenzyltrialkylammonium salt being the sole surfactant in the latex.

142983

CLASS 47-E.

Int. Cl. C10b 3/00; 17/00; 21/03; 21/10.

## IMPROVEMENTS IN OR RELATING TO COKE OVEN BATTERY.

*Applicant* : DR. C. OTTO & COMP. GMBH., OF BOCHUM, WEST GERMANY.*Inventor* : DIPL. ING. ERICH PRIES.

Application No. 2641/Cal/74 filed November 27, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

In a coke oven battery of the type heated optionally by lean gas or rich gas and which includes a twin heating flues disposed in a raw between the coke oven chambers, the twin heating flues being defined by continuous and discontinuous crosswalls in an alternating arrangement, each heating flue having inlets at its base for rich and lean gas, and cross-regenerators below the coke oven chambers, each of said cross-regenerators being operated over its entire length in the same flow line during a single heating half-cycle and in reverse during the other half-cycle, said twin heating flues being defined by crosswalls incorporating passageways therein that define header flues in each of the crosswalls for preheated air and alternatively as exit ports at intervals of graduated elevations, the improvement comprising :

means defining a first series of ducts extending in a gaseous conducting manner between a first one of said regenerators and every other header flue in each of two adjacent rows of said twin heating flues for conducting preheated air during a heating half-cycle, said means further defining a second series of ducts extending in a gaseous conducting manner between a second one of said regenerators and exit ports in the bottom of the heating flues forming said two adjacent rows thereof for conducting preheated lean gas when heating a coke oven chamber thereby and for conducting preheated air when heating a coke oven chamber with rich gas, said first and second series of ducts being arranged alternatively from row-to-row of heating flues in a manner to alternate the sequence of upgoing and downgoing sections of twin flues between rows thereof.

CLASS 28A &amp; E.

142984

Int. Cl. F23d 13/38; F23n 1/02; 5/04; 5/20.

## A FUEL MONITORING SYSTEM FOR THE BURNER FLAME OF A FURNACE.

*Applicant* : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.*Inventor* : FRANK WILLIAM HOCHMUTH.

Application No. 163/Cal/75 filed January 28, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A fuel monitoring system for the burner flame of a furnace, said system comprising a thermostat adapted to control a switch in a circuit which in turn controls a valve for the supply of fuel to the burner, said thermostat causing the valve of fuel supply to close in the absence of flame at the burner, the supply of fuel to the burner being also controlled by a differential pressure operated switch, said differential pressure operated switch having a diaphragm one side of which is connected by a pipe leading to the burner housing, the other side being connected to the air inlet pipe, said differential pressure switch opening a second switch for controlling the supply of fuel to the burner so that when the air flow falls below a predetermined value the valve for the supply of fuel to the burner closes.

CLASS 49-C.

142985

Int. Cl. A23n 15/02.

## IMPROVEMENTS IN FRUIT GRADERS.

*Applicant & Inventor* : GEOFFREY WILLIAM PAYNE-OF 43, MYRTLE STREET, GLEN WAVERLEY, VICTORIA, AUSTRALIA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A fruit grading machine including at least one path along which fruit to be graded passes, said at least one path being so oriented that fruit passing therealong moves towards one side thereof, a conveyor comprising the surface of said at least one path whereby to cause fruit to pass therealong; at least two grading rollers located above said at least one path

and adjacent the side to which the fruit moves, said grading rollers being movable whereby to allow for variation of their spacing above said at least one path; drive rollers carried on a driven shaft and being in contact with the said grading rollers whereby to drive those rollers to vary the orientation of the fruit; and delivery means associated with said at least one path; the arrangement being such that the spacing of the grading rollers above said at least one path increases along said at least one path so that fruit can selectively pass between a grading roller and said at least one path to the delivery means, thereby grading the fruit.

CLASS 32F.b.

142986

Int. Cl. C07c 157/14.

## PROCESS FOR THE PRODUCTION OF ISOTHIOURreas.

*Applicant* : SMITH KLINE & FRANCE LABORATORIES LIMITED, OF MUNDELLS, WELWYN GARDEN CITY HERTFORDSHIRE, ENGLAND.

*Inventors* : GRAHAM JOHN DURANT, JOHN COLIN EMMETT, CHARON RÓBIN GANELLIN AND JAMES WHYTE BLACK.

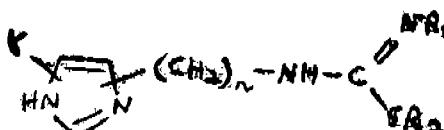
Application No. 1913/Cal/75 filed October 4, 1975.

Division of application No. 129041 filed October 28, 1970.

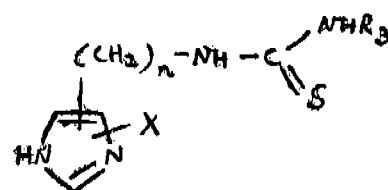
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A process for the production of isothioureas of formula I.



wherein X is hydrogen, amino lower alkyl or lower alkylthio, n is from 2-5; R<sub>3</sub> is hydrogen, lower alkyl, aryl or aralkyl; and R<sub>a</sub> is a saturated or unsaturated alkyl group containing from one to six carbon atoms, or (CH<sub>2</sub>)<sub>m</sub>Z where m is from 1-3 and Z is a phenyl optionally substituted by hydroxyl or halogen, imidazolyl, hydroxy, alkylamino, cyano or carboxy group or an aryl ether radical such as phenoxy or benzhydryloxy and R<sub>a</sub> may, with R<sub>3</sub>, form a five membered ring with the adjacent atoms, wherein a compound of the formula III.



wherein R<sub>3</sub> is hydrogen, and alkyl group containing from 1-4 carbon atoms, aryl or aralkyl is treated with a compound of the formula R<sub>2</sub>Y wherein R<sub>2</sub> has the same significance as given hereinabove and Y is halogen or hydroxy.

CLASS 32F.b.

142987

Int. Cl. C07d 41/08.

## A PROCESS FOR THE SYNTHESIS OF N-SUBSTITUTED 3-PHENYL-2, 3, 4, 5-TETRAHYDRO-1H-1-BENZAZEPINES.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

*Inventors* : JAG MOHAN KHANNA, & NITYANAND.

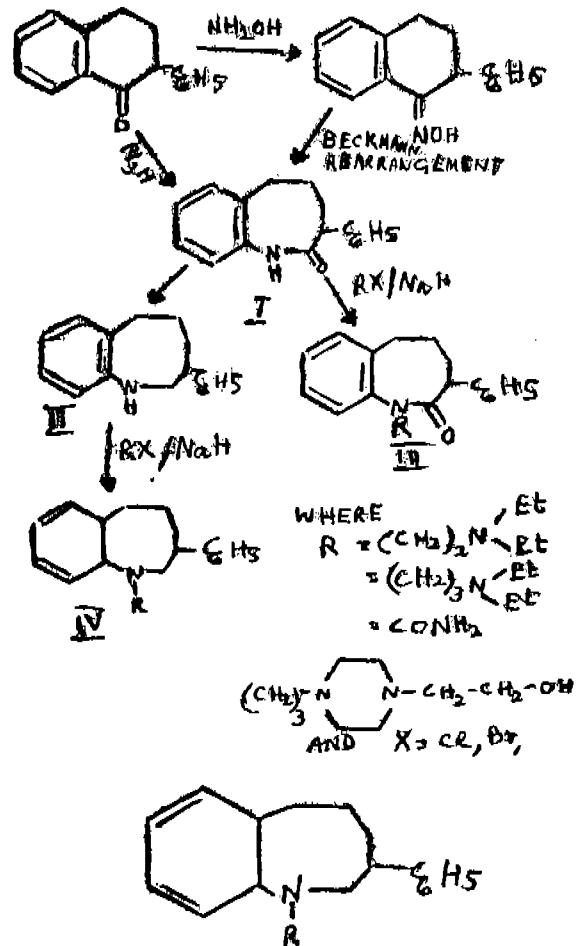
Application No. 2182/Cal/75 filed November 15, 1975.  
Patents Rules, 1972) Patent Office, Delhi Branch.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

247GI/77

## 1 Claim

A process for the preparation of N-substituted 3-phenyl-2, 3, 4, 5-tetrahydro-1H-1-benzazepines of the formula IV, shown in Fig. 1.



following the schemes outlined in Fig 1.

wherein the N-substituent is a dialkylamino alkyl group, where the alkyl group may be of 1-5 carbon atoms, comprising of refluxing a mixture of 3-phenyl-2, 3, 4, 5-tetrahydro-1H-1-benzazepine, a proton abstracting agent such as alkali metal hydride, alkali amide or alkoxide and a dialkylamino-alkyl halide, where the alkyl group may be of 1-5, carbon atoms, in any non-polar solvent like tetrahydrofuran dioxan, benzene and toluene.

CLASS 39-C &amp; 123.

142988

Int. Cl. A01n 7/00; C05c 5/00; C01c 1/24.

## PROCESS FOR PREPARING SOIL MODIFIERS AND FERTILIZERS FROM BY-PRODUCTS BASED ON FERROUS SULPHATE OBTAINED IN THE MANUFACTURE OF TITANIUM DIOXIDE BY THE SULPHATE PROCESS.

*Applicant* : SOCIETA ITALIANA RESINE S.I.R. S.P.A. OF 33, VIA GRAZIOLI, MILAN, ITALY.

*Inventors* : LUIGI PICCOLO, MARCELLO GHIRGA, ANTONIO PAOLINELLI, AND GIAN PIETRO PAGANESSI.

Application No. 2356/Cal/75 filed December 18, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims. No drawings

A process for the preparation of a composition useful as soil modifier and of concentrated solution of ammonium

sulphate with a high purity degree, starting from py-products obtained in the production of titanium dioxide from ilmenites or ilmenite slag by the sulphate process, said by-products consisting essentially of ferrous sulphate heptahydrate, characterized by :

(a) contacting solid particles of said by-products with gaseous ammonia, thereby to obtain a reaction product consisting essentially of ammonium sulphate and ferrous hydroxide is carried out at a temperature of from 20°C to the melting point of said ferrous sulphate heptahydrate.

(b) subjecting said reaction product to oxidation by oxygen or a gas containing molecular oxygen, thereby to convert said ferrous hydroxide into ferric hydroxide is carried out at a temperature of from 20 to 90°C.

(c) lixiviating with water the product obtained in stage (b), thereby to remove from 85 to 95 wt.% of said ammonium sulphate in the form of an aqueous solution having an ammonium sulphate content of at least 40 wt.%, and separating said solution from the residual solid; and

(d) drying said residual solid to a water content of less than 20% by weight.

CLASS 70C. & 188.

142989

Int. Cl. C23f 5/02; 7/00; 17/00.

#### A PROCESS FOR COLOURING OF STAINLESS STEEL.

*Applicant & Inventors* : ALLOY STEELS PLANT, HINDUSTAN STEEL LTD., (A GOVT. OF INDIA UNDERTAKING) P.O. DURGAPUR-8, DIST. BURDWAN, WEST BENGAL, INDIA, AND DR. ASHOK KUMAR CHAKRABARTY, (2) MR. NIRMAL KANTIBASU, (3) MR. RAJENDRA KUMAR CHATTERJEE, & (4) MR. SUKHA RANJAN CHAUDHURY, INDIANS, R & C LABORATORY, ALLOY STEELS PLANT, DURGAPUR-8, WEST BENGAL, INDIA.

Application No. 892/Cal/75 filed May 3, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims. No drawings

A method of colouring polished stainless steel strips objects by controlled oxidation in an aqueous solution containing potassium dichromate, sulphuric acid and manganous sulphate, and subsequently hardening the colour so produced by subjecting the stainless steel strips/objects to an electrolytic treatment in an acidic aqueous solution of chromic acid, where the objects are made cathodic and Pb-Sb alloys containing 6% Sb as anode.

CLASS 128-G.

142990

Int. Cl. A61d 7/02.

#### APPARATUS FOR FILING ANIMAL SPERMS INTO SEMEN TUBES.

*Applicant & Inventor* : DR. MED. VET. LUDWIG SIMMET, OF PROF. DIETL-WEG 1, D-8300 LANDSHUT, WEST GERMANY.

Application No. 2412/Cal/75 filed December 30, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

An apparatus for filling animal sperms into semen tubes comprising container means for sperm material, a delivery tube communicating with the outlet of said container means, means for closing flow through said delivery tube, distributor means communicating with the outlet of said delivery tube, said distributor means having a plurality of outlets communicating with its inlet, hollow needle means communicating with each of said outlets from said distributor means, vertically displacable carrier means supporting said needle means, means for raising and lowering said needle carrier means, horizontally-displaceable magazine means for carrying a multiplicity of semen tubes in an upright position, guide means supporting said magazine means for lateral sliding movement, the number of semen tubes carried by said

magazine means being a multiple of the number of needle means, whereby said magazine means can be laterally displaced to align a semen tube below each needle means and the needle means can be lowered into the semen tubes for filling same, following which the needle means can be raised and a further set of semen tubes aligned below the needle means

CLASS 32F.

142991

Int. Cl. C07c 87/52.

#### A PROCESS FOR THE PREPARATION OF 2, 5-DIMETHOXY-4-CHLOROANILINE.

*Applicant* : BAYER AKTIENGESELLSCHAFT, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

*Inventor* : WALTER BOHM.

Application No. 615/Cal/76 filed April 8, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims. No drawings

Process for the preparation of 2, 5-dimethoxy-4-chloroaniline by catalytic hydrogenation of 2, 5-dimethoxy-4-chloronitrobenzene in a solvent at elevated temperature and elevated pressure, characterised in that 2, 5-dimethoxy-4-chloronitrobenzene is hydrogenated with hydrogen in the presence of a hydrogenation catalyst and with addition of an aliphatic, aromatic or heterocyclic amine.

CLASS 32E<sub>2</sub>b & 55H<sub>2</sub> & E.

142992

Int. Cl. C07d 99/02.

#### A PROCESS FOR PRODUCING RIFAMYCIN COMPOUNDS.

*Applicant* : ARCHIFAR INDUSTRIE CHEMIE DEL TRENTINO S.P.A., OF CORSO VERONA, 165 ROVERETO, ITALY.

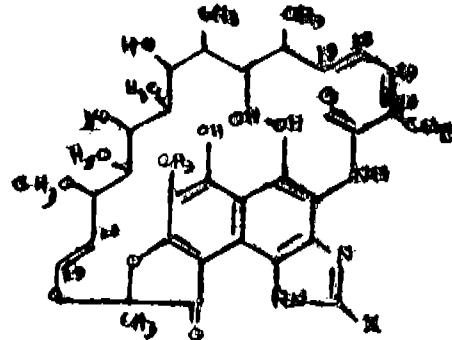
*Inventors* : LEONARDO MARSILI, VITTORIO ROSETTI & CARMINE PASQUALUCCI.

Application No. 866/Cal/76 filed May 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

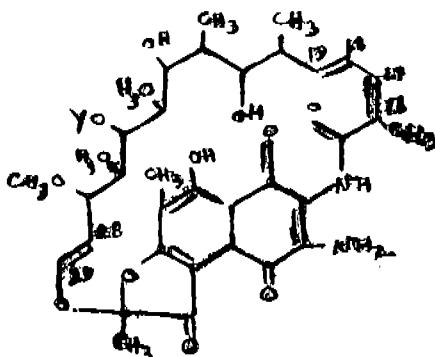
5 Claims

A process for producing rifamycin compounds of formula I.

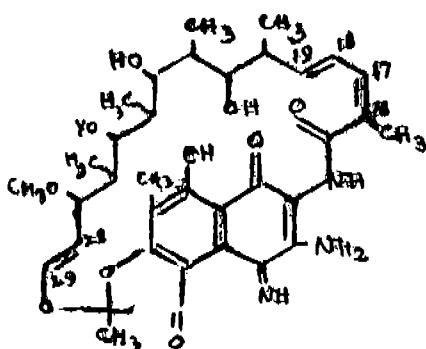


and/or their oxide derivatives thereof wherein X is a radical selected from the group comprising hydrogen carboxyl, alkyl with less than 10 atoms C, cycloalkyl with less than 7 atoms C, alkenyl with less than 4 atoms C, cycloalkenyl with less than 7 atoms C, aryl with less than 13 atoms C, arylalkyl with less than 14 atoms C, arylalkeny with less than 11 atoms C, an heterocycle of 5 and 6 members containing less than 5 heteroatoms selected from the group comprising N, O and S, an heterocycle having 5 and 6 members condensed with an aromatic ring wherein the heterocycle has less than 3 heteroatoms selected from the group comprising O and S, substitution products of the above specified radicals with at least one radical different therefrom and selected from the

group comprising, in addition to all of the above specified radicals, halogen, hydroxy, alkoxy, nitro, amino, N-alkylamino, N, N-dialkylamino, formyl, carboxyl, carbalkoxy, carboxyalkoxy, N, N-dialkyl-aminoalkoxy, acyloxy, acetamido; Y is -H or -COCH<sub>3</sub>, and its 16, 17, 18, 19 tetrahydroderivatives and 16, 17, 18, 19, 29 hexahydroderivatives which comprises subjecting a 3-amino rifamycin S compound of formula IV.



or its corresponding 3-amino-4-deoxy-4-imino rifamycin S compound of formula III.



wherein Y is -H or -COCH<sub>3</sub>, its 16, 17, 18, 19, tetrahydroderivatives and 16, 17, 18, 19, 29 hexahydroderivatives to ring closure between the 3rd and 4th positions by reacting with an aldehyde of formula X-CHO or its halide of formula X-CH<sub>2</sub>Hal wherein X is as defined before in the presence of a solvent medium and a condensation agent with the proviso that either the position 4 of the rifamycin compound or the condensation agent has the group -NH- and the product so obtained is, when desired, subjected to oxidation in presence of a known oxidizing agent.

CLASS 35-C. 142993  
Int. Cl. C04b 15/00.

**IMPROVEMENTS IN OR RELATING TO BUILDING MATERIALS OF THE CONCRETE TYPE.**

*Applicant & Inventor : CHRISTIAN DUSSEL, OF 11, RUE DE L'YSER, 31000 TOULOUSE, FRANCE.*

Application No. 1086/Cal/76 filed June 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A concrete comprising an agglomerate of at least one porous mineral filler bound together with a binder which contains both a polyester resin emulsified with water and an hydraulic cement, the setting and hardening water for the hydraulic cement being constituted at least in part by the water of the said emulsion.

CLASS 26.

142994

Int. Cl. A46b 9/04.

**A DISPOSABLE TOOTHBRUSH.**

*Applicant : MANUEL SEINHART AND NORBERTO ESTEBAN SEINHART, OF MAIPU 335, BUENOS AIRES, ARGENTINA.*

*Inventors : CHARLOS JOSE MARANO, & ENRIQUE CAPISANO.*

Application No. 2142/Cal/76 filed December 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A throwaway toothbrush of the type comprising an elongated handle and a large number of flexible bristles close to one end, characterized by means forming a cylinder extending underneath the bristles and constituting a storage area for dentifrice, means defining an orifice connecting the cylinder to the base of these bristles, means forming a groove in said handle, and means normally nested in said groove and manually movable to push the dentifrice through side orifice to said bristles.

CLASS 107-B & 163-D.

142995

Int. Cl. I-02b 21/02.

**TOROID SWEEP ENGINE.**

*Applicant & Inventor : STEPHEN MITCHEL WOHL, OF 2960 ST. JOSEPH BOULEVARD, LACHINE, PROVINCE OF QUEBEC, CANADA.*

Application No. 839/Cal/74 filed April 15, 1974.

Convention date April 12, 1973(168542/73) Canada.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A rotary internal-combustion engine comprising :

(a) a chamber in the form of a toroid, defined between a rotatable body and a stationary body,

(b) a sweeper supported by one of the said bodies defining the toroid the sweeper adapted to reside within the toroid during a phase of operation, interrupting during said phase every geometric circle which is both contained in the interior of the toroid and centered on the toroid axis.

(c) a jut supported by the other of the said bodies defining the toroid, adapted (1) to reside within the toroid during the said phase of operation interrupting every geometric circle which is both contained in the interior of the toroid and centered on the toroid axis, and also adapted (2) to periodically withdraw at least partially from the toroid through a cavity in the toroid walls sufficiently to enable the sweeper and the jut to pass by one another, the jut in the phase of maximum withdrawal ceasing to interrupt every geometric circle which during the phase of maximum withdrawal is both interrupted by the sweeper and centered on the toroid axis, the jut being adapted to withdraw from the toroidal chamber in response to a pull on the jut from the outside of the toroidal chamber.

(d) an exhaust duct communicating with the toroidal chamber in the diminishing region that lies between the sweeper and the jut as the sweeper and the jut approach one another,

(e) an air inlet duct communicating with the toroidal chamber in the enlarging region that lies between the sweeper and the jut as the sweeper and the jut depart from one another,

(f) a hot-air source communicating with the toroidal chamber by way of the air inlet duct, adapted to induce hot-air into the enlarging region of the toroidal chamber substantially at the beginning of the said operating phase during which the sweeper and the jut each interrupt every geometric circle that is both contained in the interior of the toroid and centered on the toroid axis, said hot air being of a tempera-

ture above the self-ignition temperature of the fuel which the engine is adapted to burn.

(g) means for limiting flow between the said hot-air source and the toroidal chamber,

(h) a fuel injector communicating with the toroidal chamber in the enlarging region that lies between the sweeper and the jet as the sweeper and the jet depart from one another, adapted with the ability to maintain a feed of fuel directly into the enlarging region of the toroidal chamber subsequent to the introduction of hot air into said enlarging region and while the said flow-limiting means is closed.

CLASS 127-H. 142996  
Int. Cl. F16h 53/00.

METHOD FOR THE MANUFACTURE OF CAM ASSEMBLIES.

*Applicant* : THE LUCAS ELECTRICAL COMPANY LIMITED, OF WELL STREET, BIRMINGHAM, ENGLAND.

*Inventor* : ALFRED HAROLD YARDLEY.

Application No. 1031/Cal/74 filed May 9, 1974.

Convention date July 25, 1973 (35428/73) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method for the manufacture of a cam assembly including a cam body composed of an axial portion through which there extends an axial bore and a drive plate through which said axial portion protrudes, said cam body comprising a sintered iron composition containing from 0 to 0.25% by weight of carbon, which method comprises securing the cam body to the drive plate by means of hot riveting whereby that part of the axial portion of the cam body protruding through the drive plate melts and flows thereby forming a weld with the face of the drive plate remote from that face engaged by the remainder of the cam body.

CLASS 40-F & 62-B. 142997  
Int. Cl. B05c 1/00; 3/00.

ELECTRIC DIPPING DYEING PLANT.

*Applicant* : HAJTOMOVEK ES FESTOBERENDEZESEK GYARA, OF 98, FEHERVARI-UT, BUDAPEST XI, HUNGARY.

*Inventors* : JOZDEF DOMOKOS, ZOLTAN BELLER, ERVIN RAJZ, & SZVETLANA HEGAJ.

Application No. 1487/Cal/74 filed July 3, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

Electric dipping-dyeing plant, having dye jig, circulating conduit bleeding the dye jig and returned thereto, and pump arranged in the circulating conduit as well as filter, characterized in that to the filtrate discharging side of the filter (6) electrocoagulator (8) is connected, the outlet of which is connected to the flushing organ (13, 13') of the flushing apparatus through deionizer (10) provided with cation and anion exchange columns, whereas a channel (14) discharging the flushing liquid of the flushing apparatus is connected to the dye jig (3) and/or to the dialyzer.

CLASS 42A. 142998  
Int. Cl. B65d 85/10.

DEVICE FOR PRODUCING ON CIGARETTE PACKING MACHINES THE UNDERSTRIP OR "SHOULDER PIECE".

*Applicant* : G. D. SOCIETA PER AZIONI, OF VIA POMPONIA 10, BOLOGNA, ITALY.

*Inventor* : SERAGNOLI ENZO.

Application No. 2158/Cal/74 filed September 26, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A device for producing in cigarette packing machines the undersrip or shoulder pieces incorporated internally in each packet of the hinge lid type, comprising a track for feeding the reel would material destined to be divided up into the individual undersrips and means for intermittently supplying the said material along the said track, essential features of the said device in sequence being that, the said device is provided with roller means, along the said infeed track, operating in conjunction with counter rollers for making in the said continuous web of material two rows of indentations punctuated by notches in a direction parallel to that in which the material moves forward, a cutting means positioned transversely with respect to the said infeed track, consisting of a movable knife and a stationary knife, which, with respect to the aforementioned means for indenting and notching and to the aforementioned means for intermittently supplying the material from continuous web, is adapted to operate on a phase relationship basis such that the individual undersrips it detaches from the said continuous web are all identical; means for retaining the undersrip detached from the said continuous web in the hold of the said movable knife, means for causing the said indenting/notching roller means to operate intermittently and means for moving the said movable knife in a reciprocating fashion.

CLASS 105-C & D. 142999  
Int. Cl. G12b 11/02.

SCALE MECHANISM FOR THE WRITING ELEMENT OF A STRIP CHART RECORDER.

*Applicant* : SYBON CORPORATION, OF 1100 MID-TOWN TOWER, ROCHESTER, NEW YORK-14604, UNITED STATES OF AMERICA.

*Inventors* : MELVIN J. POST & JAMES LEO McCARTHY.

Application No. 2221/Cal/74 filed October 4, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

In a strip chart recorder including at least one writing element, a scale mechanism for the writing element comprising :

a plurality of elongated generally rectangular shaped thin strips, wherein the width of the strips is substantially less than the length, and the thickness of the strips is substantially less than the width, and wherein the length and width of the strips define a surface adapted for receiving scale graduations for indicating the positions said writing element;

means for pivotally mounting said plurality of strips for rotation about an axis that extends along the length of the strips, and

means for simultaneously rotating each of said plurality of strips from a position wherein said surfaces face the front of the instrument to a position wherein the surfaces are generally normal to the front of the instrument,

CLASS 129-E. 143000  
Int. Cl. B21j 13/02; 9/02.

A PRESS FOR FORMING WORKPIECES FROM A LENGTH OF BAR.

*Applicant* : SEBASTIAN MESSERSCHMIDT, OF 8724 SCHÖNUNGEN, SCHWEINFURT, WEST GERMANY.

*Inventor* : MR. KLAUS MESSERSCHMIDT.

Application No. 188/Cal/75 filed January, 30, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

A press for forming workpieces from a length of bar, comprising a press-stand; a feed device; two sets of press tools each comprising a stationary die mounted on the press-stand and a movable die, the movable dies being arranged to be driven by a crankshaft having angled portions offset from one another by 180° and being disposed alongside and parallel to each other one on each side of the feed device; the feed device including a shearing member mounted for reciprocation between the two stationary dies and having at each of its end faces a cutting edge for cutting off from a length of bar a workpiece to be shaped and a workpiece holder for alternately loading the two stationary dies with a said workpiece to be shaped.

## CLASS 24-E.

143001

Int. Cl. B60f 13/14.

## IMPROVEMENTS IN HYDRAULIC BOOSTER FOR VEHICLE BRAKING SYSTEMS.

*Applicant* : GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

*Inventor* : GLYN PHILLIP REGINALD FARR.

Application No. 943/Cal/75 filed May 12, 1975.

Convention date May 21, 1974(22515/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

An hydraulic booster of the kind set forth for a vehicle braking system in which resilient means bias the control valve towards the open position, the by-pass means comprises a by-pass valve which is separate from the control valve and which is adapted to control communication between the inlet port and the steering circuit outlet port, the by pass valve comprises a valve spool working in a bore and exposed at opposite ends to the pressure at the inlet port and pressure in the boost chamber and urged by a return spring in the direction in which the steering circuit outlet port is closed, and a lever housed in the boost chamber controls the position of the control valve, the lever having a freely separable engagement at one end with the valve to urge the valve into the closed position in opposition to the resilient means, and being coupled to the input member at an intermediate point in its length, and engaging at its other end with the boost piston, the arrangement being such that the lever is movable relatively away from the valve on operation of the input member so that the control valve is urged into the open position by the resilient means, the engagement between the lever and the valve being constructed and arranged such that on failure of the pressure in the boost chamber the lever can move away from the valve to free the valve and the input member from the loading of the spring after the valve engages a stop defining the open position, whereby the pedal is subjected to a direct feel from the out-put members.

## CLASS 71-B &amp; 149F.

143002

Int. Cl. E02d 11/00; 17/08.

## SHEETING ARRANGEMENT FOR SHEETING OF A DITCH.

*Applicant & Inventor* : JOSEF KRINGS, OF D 5138 HEINSBERG, OBERBRUCH, HANS-BOOKLER-STRASSE 23, GERMAN FEDERAL REPUBLIC.

Application No. 1459/Cal/75 filed July 25, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A sheeting arrangement for the sheeting or shoring of ditches and the like comprising upstanding supports of a hollow box-like profile and at least one sheeting wall guided in said supports and anchored thereby, and cooperating friction reducing means on said supports and said sheeting wall for decreasing the frictional resistance between the supports and the sheeting wall.

## CLASS 9-D &amp; F.

143003

Int. Cl. C22c 39/44.

## PROCESS FOR PRODUCING ELECTROMAGNETIC SILICON STEEL.

*Applicant* : ALLEGHENY LUDLUM INDUSTRIES, INC., OF 2000 OLIVER BUILDING, CITY OF PITTSBURGH, COMMONWEALTH OF PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors* : JAMES ALLEN SALSGIVER & FRANK ANGELO MALAGARI, JR.

Application No. 2080/Cal/75 filed October 29, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims. No drawings

A process for producing electromagnetic silicon steel having a cube-on-edge orientation and a permeability of at least 1850(G/O.) at 10 oersteds, which include the steps of preparing a melt of silicon steel having, by weight, up to 0.07% carbon, from 2.60 to 4.0% silicon, from 0.03 to 0.24% manganese, from 0.01 to 0.09% of material from the group consisting of sulfur and selenium, from 0.015 to 0.04% aluminum up to 0.02% nitrogen, and from 0.1 to 0.5% copper, casting said steel hot rolling said steel into a hot rolled band, subjecting said steel to at least one cold rolling, annealing said steel prior to the final cold rolling at a temperature of from 1400 to 2150°F for a period of from 15 seconds to 2 hours, cooling said steel from its maximum annealing temperature to a temperature below 1700°F and above 750°F at a rate which is no faster than a still air cool, cooling said steel from said temperature below 1700°F and above 750°F to a temperature at least as low as 500°F at a rate which is faster than still air cool, final cold rolling the cooled steel at a reduction of at least 80%, and subsequently decarburizing said steel and final texture annealing said steel, including the steps of adding from 0.00045 to 0.0035% boron.

## CLASS 69L.

143004

Int. Cl. H01h 13/00.

## PUSH BUTTON SWITCH POSITION INDICATORS.

*Applicant* : MEHTA ENGINEERING ENTERPRISE, SAKI VIHAR ROAD, B.D. JOSHI BLDG., POWAI, BOMBAY-400 072, MAHARASHTRA, INDIA.

*Inventor* : GIRISH KUMAR RATILAL MEHTA.

Application No. 394/Bom/74 filed November 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 8 Claims

A push button switch position indicator having a longitudinal axis comprising :

(a) a push button head having a window fitted with a transparent cap and a carrier detachably mounted to switch frame means, said carrier being mounted in said head for longitudinal movement towards and away from said window while said head is maintained longitudinally by spring means relative to said carrier and said frame means;

(b) said carrier having a front end whereon a signal surface is provided and a pair of limbs extending longitudinally towards the rear end of said carrier;

(c) at least one shutter;

(d) first attaching means provided on said carrier for mounting on the latter said shutter means at said front end of the carrier so that said shutter means is rotatable about bearing means forming an axis perpendicular to the longitudinal axis;

(e) second operating cam means provided on said cap and co-acting with said first attaching means for operating the latter so that, on moving said head relative to said carrier, said shutter means pivotally moves into its "on" or first position for providing visual detection of said surface through said window; and

(f) third operating cam means provided on said head and co-acting with said first attaching means for operating the latter so that, on moving said head relative to said carrier, said shutter means pivotally moves into its "off" or second position for preventing the detection of said surface through said window.

CLASS 83A<sub>a</sub>.  
Int. Cl. A23c 23/00.

143005

## DEVICE FOR THE ACCELERATED PREPARATION OF CURD FROM MILK.

*Applicant* : MAIL ORDER SALES PRIVATE LIMITED, OF 15, MATHEW ROAD, BOMBAY 4, MAHARASHTRA, INDIA.

*Inventor* : MADHAV JAYARAM JOSHI.

Application No. 396/Bom/74 filed November 11, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 15 Claims

A device for the accelerated preparation of curd from milk which comprises the combination of three coaxial containers adapted to nest snugly one within the other, the middle container when inserted within the outermost container being separated from the inner periphery of said outermost container by an air space whereas the innermost container which is adapted to hold the milk to be curdled when inserted within the middle container is in substantially complete contractual relationship with the inner surface of the middle container, and heating means for heating the milk to be curdled located between the outermost and middle containers when the three container are in nesting relation.

CLASS 179-B.  
Int. Cl. B67c 3/18.

143006

## A DEVICE TO FILL CONTAINERS WITH CONTROLLED AMOUNT OF LIQUID.

*Applicant & Inventor* : PARUTHIAZHATH PERUMAL MOHANAN, PARUTHIAZHATH HOUSE, (P.O.) ELAN-KUNAPUZHA, PIN : 682503, COCHIN, KERALA.

Application No. 102/Mas/75 filed July 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 4 Claims

An apparatus for continuously filling containers with a controlled quantity of a liquid comprising a main tank M1 with an outlet P1 and a valve V1 positioned at the outlet; a constant level tank M2 having a float valve, the said float valve F1 being connected to the valve at the outlet of the main tank so as to open it when the level of liquid lowers in the constant level tank; and an arrangement consisting of a horizontal tube H, the two terminal ends S1 and P of which are vertical, one of the terminal vertical ends S1 being positioned inside the constant level tank the other terminal end P having a valve V2 and terminating in a funnel, the said horizontal tube also having at least one or more vertical limbs S2, S3... with slightly curved opening ends, each of the said vertical limbs having a ring R in its outside, the said ring holding a U shaped wire projection F and from the bottom centre of which projection extends inside the vertical limb a rubber Ball B which is capable of closing the opening of the vertical limb, and the whole arrangement being air tight.

## PATENTS SEALED

140439 140730 140732 140735 140747 140749 140780 140784  
140841 140997 141005 141033 141085 141159 141161 141205  
141206 141212 141253.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendments proposed by Janssen Pharmaceutica N. V. in respect of patent application No. 131767 as advertised in Part III, Section 2 of the Gazette of India dated the 30th April, 1977 has been allowed.

PATENTS DEEMED TO BE ENDORSED WITH  
THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the Patents.

| No.              | Title of the invention  |
|------------------|---|
| 110249 (20.4.72) | Process for producing high purity $\beta$ -methyl mercaptopropionaldehyde.        |
| 130954 (13.4.71) | Process for the manufacture of benzoxanthene and benzothioxanthene dyestuffs.     |
| 131909 (1.3.72)  | Improvements in or relating to the electrolytic preparation of lithium hydroxide. |
| 133840 (3.12.71) | Process for the preparation of water soluble monoazo dyestuffs.                   |
| 134672 (18.2.72) | Process of removing sulfur dioxide from a gas stream.                             |
| 135223 (10.4.72) | Process for preparing an aqueous flame retardant finish composition.              |
| 135517 (18.5.72) | Process for the manufacture of an ammoniation catalyst.                           |
| 135535 (6.6.72)  | Manufacture of resilient compound foams.  |

## RENEWAL FEES PAID

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|---|
| 83980 84213 84378 84772 87745 89689 89723 89884 89904   |
| 89905 89906 89939 89988 90004 90007 90262 90448 91259   |
| 91260 91261 94270 94332 94403 95383 95409 95430 95475   |
| 95628 95694 95742 100948 101398 101567 101647 101652    |
| 101735 101785 105613 105729 106890 106930 106983 107072 |
| 107079 107081 107085 107108 107128 170158 107191 107232 |
| 107235 107538 107539 107899 111897 112064 112229 112310 |
| 112344 112380 112411 112425 112426 112485 112572 112623 |
| 112711 112877 113240 113670 116046 116590 116825 117054 |
| 117300 117544 117560 117570 117686 117715 117721 117754 |
| 117961 118411 118879 120856 121446 122468 122469 122470 |
| 122471 122472 122473 122474 122475 122476 122477 122594 |
| 122981 123037 123109 123148 123181 123184 123269 123352 |
| 123424 123425 123775 126898 127471 128057 128199 128219 |
| 128283 128308 128315 128326 128344 128350 128396 128403 |
| 128478 128495 128498 128551 128650 128839 128896 129155 |
| 129156 130900 131202 131394 132002 132414 132577 132636 |
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| 133658 133717 133833 135462 135589 135664 136020 136199 |
| 136414 136427 136428 136662 136740 136844 137359 137486 |
| 137527 137572 137868 137880 138268 138277 138278 138490 |
| 138627 139291 139297 139450 139517 139563 139591 139672 |
| 139711 139729 139791 139802 139964 139965 139999 140014 |
| 140015 140055 140069 140083 140084 140095 140115 140120 |
| 140132 140181 140196 140200 140208 140210 140217 140222 |
| 140291 140316 140390 140399 140405 140415 140457 140525 |
| 140530 140648   |

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 145316. Francisco Carvalho, an Indian Citizen, A-5, Laxman apartments, Azad Road, Andheri (West), Bombay-400 058, Maharashtra, India. "Helmet lock". March 7, 1977.

Class 1. No. 145318. Y. S. Industries, Sanatan Dharam Sabha Building, Amritsar Road, Kapurthala, (Punjab-India), an Indian Partnership firm. "Badminton racket". March 7, 1977.

Class 3. No. 145027. Mahabali Bajrangbali Industries, 6183, Pakki Gali, Bara Hindu Rao, Delhi-6, A sole proprietorship concern. "Sole of shoe". December 23, 1976.

Class 3. No. 145057. Swastik Art Industries, an Indian Partnership firm, of P.O. Box 7615, Ram Baug, S. V. Road, Malad, Bombay-400 064, Maharashtra, India. "Decorative panels". December 31, 1976.

Class 3. No. 145280. Unity Industries, an Indian Partnership Firm, at 105/369, Sheikh Memon Street, Dubash Market, 2nd Floor, Bombay-400 002, Maharashtra, India, "Binoculars". February 25, 1977.

Class 3. No. 145295. Incheck Tyres Limited, of "Leslie House", 19, Jawaharlal Nehru Road, Calcutta-700013, West Bengal, India, an Indian Company. "Tyre". March 1, 1977.

Class 4. No. 145065. Bhatia & Company, 2248, Chuna Mandi Paharganj, New Delhi-110053, an Indian partnership firm. "Ink-pot". January 3, 1977.

Class 4. No. 145187. Pritipal Singh Sawhney, Polytechnic Campus, Nanded-431601, Maharashtra State, India, Indian Citizen. "Concrete chajja". February 5, 1977.

Class 4. No. 145188. Pritipal Singh Sawhney, Polytechnic Campus, Nanded-431601, Maharashtra State, India, Indian Citizen. "Precast concrete footing". February 5, 1977.

Class 4. No. 145189. Pritipal Singh Sawhney Polytechnic Campus, Nanded-431601, Maharashtra State, India, Indian Citizen. February 5, 1977.

Class 5. Nos. 145169. & 145171. Unisystcam Private Limited, an Indian Company, 25, Community Centre, East of Kailash, New Delhi-110048, India.

Class 10. No. 145289. Prem Plastics, C-139, Naraina Industrial Area, Phase-1, New Delhi-110028, an Indian Partnership concern. "Footwear". February 28, 1977.

Class 10. No. 145312. Maya Plastic Industries, Shed No. 7, Udyognagar, Chitra, Bhavnagar, (Gujarat), an Indian Proprietary firm. "Footwear". March 7, 1977.

S. VEDARAMAN,  
Controller General of Patents  
Designs and Trade Marks.

